

WE CLAIM:

Sub  
A.1

1. An odor-control system, comprising cellulose fibers treated with a partially neutralized carboxylic acid odor control agent, the odor control system being capable of suppressing odor from at least ammonia.

2. The odor control system of Claim 1, wherein the partially neutralized carboxylic acid odor control agent comprises a partially neutralized polycarboxylic acid.

3. The odor control system of Claim 1, wherein the partially neutralized carboxylic acid odor control agent comprises about 25-100% by weight of a partially neutralized hydroxyl multi-carboxylic acid.

4. The odor control system of Claim 1, wherein the partially neutralized carboxylic acid odor control agent comprises about 50-100% by weight of a hydroxyl multi-carboxylic acid.

5. The odor control system of Claim 2, wherein the hydroxyl multi-carboxylic acid is selected from citric acid, malic acid, tartaric acid, and combinations thereof.

6. The odor control system of Claim 2, wherein the hydroxyl multi-carboxylic acid comprises citric acid.

7. The odor control system of Claim 1, wherein the partially neutralized carboxylic acid odor control agent has a degree of neutralization of about 15-95%.

8. The odor control system of Claim 7, wherein the degree of neutralization is about 30-90%.

9. The odor control system of Claim 7, wherein the degree of neutralization is about 50-80%.

10. The odor control system of Claim 1, wherein the odor control agent comprises a chelating agent.

11. The odor control system of Claim 1, wherein the partially neutralized carboxylic acid odor control agent comprises a salt of a transition metal..

12. The odor control system of Claim 11, wherein the transition metal is selected from zinc, cadmium, zirconium, chromium, titanium, copper, and combinations thereof.

10055361001  
T03T21A

13. The odor control system of Claim 1, comprising about 1-40% of the carboxylic acid odor control agent based on a combined weight of dry odor control agent and dry cellulose fibers.

14. The odor control system of Claim 13, comprising about 3-30% of the carboxylic acid odor control agent.

15. The odor control system of Claim 13, comprising about 5-20% by weight of the carboxylic acid odor control agent.

16. An absorbent layer for an absorbent article, comprising cellulose fibers treated with a partially neutralized carboxylic acid odor control agent selected from a partially neutralized HMCA, a partially neutralized PCA and combinations thereof, the absorbent core being capable of suppressing odor from at least ammonia.

17. The absorbent layer of Claim 16, further comprising cellulose fibers which are not treated with the partially neutralized carboxylic acid odor control agent.

18. The absorbent layer of Claim 16, further comprising a superabsorbent material.

19. The absorbent layer of Claim 16, wherein the partially neutralized carboxylic acid odor control agent comprises a partially neutralized HMCA.

20. The absorbent layer of Claim 16, wherein the partially neutralized carboxylic acid odor control agent comprises a partially neutralized PCA.

21. The absorbent layer of Claim 16, wherein the partially neutralized polycarboxylic acid odor control agent has a degree of neutralization of about 15-95%.

22. The absorbent layer of Claim 21, wherein the degree of neutralization is about 30-90%.

23. The absorbent layer of Claim 21, wherein the degree of neutralization is about 50-80%.

24. An absorbent article comprising an odor control system including cellulose fibers treated with a partially neutralized carboxylic acid odor control agent selected from a partially neutralized HMCA, a partially neutralized PCA and combinations thereof, the absorbent article being capable of suppressing odor from at least ammonia.

FOIA b 7 - DECLASSIFIED

FOOTNOTES

25. The absorbent article of Claim 24, wherein the cellulose fibers are treated with a partially neutralized HMCA selected from citric acid, malic acid, tartaric acid, and combinations thereof.

26. The absorbent article of Claim 24, wherein the cellulose fibers are treated with partially neutralized citric acid.

27. A diaper comprising the absorbent article of Claim 24.

28. Training pants comprising the absorbent article of Claim 24.

29. Swim wear comprising the absorbent article of Claim 24.

30. Absorbent underpants comprising the absorbent article of Claim 24.

31. A baby wipe comprising the absorbent article of Claim 24.

32. An adult incontinence product comprising the absorbent article of Claim 24.

33. A feminine hygiene product comprising the absorbent article of Claim 24.

34. A medical garment comprising the absorbent article of Claim 24.

35. An underpad comprising the absorbent article of Claim 24.

36. An absorbent drape comprising the absorbent article of Claim 24.

37. A bandage comprising the absorbent article of Claim 24.

38. A medical wipe comprising the absorbent article of Claim 24.

1005336-421304

A 1